United States Patent [19]

Pinchuk

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[54]	CRACK PREVENTION AND IMPROVED
	THROMBOGENICITY OF IMPLANTED
	PROSTHESES BY SULFONATION

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[56] References Cited

U.S. PATENT DOCUMENTS

	Sugitachi et al Takagi et al	
	Wong Mani et al	

OTHER PUBLICATIONS

Pande, "Thermoplastic Polyurethanes as Insulating

Materials for Long-Life Cardiac Pacing Leads", *PACE*, vol. 6, Sep.-Oct. 1983, Part I, pp. 858-867. Goldberg et al, "Biocompatibility of Intraocular Lens Polymers", Apr. 1985.

Sulfonation and Related Reactions, Chapter 2, pp. 75-77. Josefowicz et al, "Heparin-Like Biomaterials", Second World Congress on Biomaterials, 1984.

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[57] ABSTRACT

Implantable devices for medical use are provided which have been subjected to treatment with a crack preventative/antithrombogenic agent in the form of a sulfate. This treatment substantially prevents surface cracking or fissuring of the subcutaneous implantation as well as preventing thrombus formation along the blood contacting surfaces of the treated material.

30 Claims, 1 Drawing Sheet

